



## DEPARTMENTS OF THE ARMY AND AIR FORCE

JFHQ-LA NGLA-JPM-HA  
5445 Point Clair Road  
Gillis Long Center  
Carville, Louisiana 70721

# STATEWIDE AGR VACANCY ANNOUNCEMENT

ANNOUNCEMENT NO: LA 1719463-A

OPENING DATE: 17 June 2016

CLOSING DATE: 7 July 2016

UMDA POSITION TITLE: **Electronic Integrated Systems Mechanic**

UMDA MAX AUTH GRADE: SSgt/E5

DUTY AFSC: 2A354

**AREA OF CONSIDERATION:** Current enlisted AGR members in the Louisiana Air National Guard

### **OCCUPATIONAL REQUIREMENTS:**

Incumbent is subject to uncommon tours of duty, rotational shift assignments and overtime duty. May be required to fly in military aircraft or commercial aircraft for TDY purposes. Participation with unit of assignment during UTAs, annual training, deployments, special projects and exercises is required.

### **QUALIFICATION REQUIREMENTS:**

- Compatible AFSC: 2A3XX
- Member must meet physical qualifications IAW Chapter 7, ANGI 36-101, AFI 48-123.
- Member must also meet the requirements of AFI 36-2903, AFI 36-2905, and other regulations as required.
- No record of disciplinary action that resulted in an Article 15 or Unfavorable Information File.
- No history of emotional instability, personality disorder, or other unresolved mental health problems.
- No record of alcohol or substance abuse, financial irresponsibility, domestic violence, or child abuse.
- No record of disciplinary action (Letter of Reprimand [LOR] or Article 15) for committing acts of malpractice or misconduct as defined in AFRSI 36-2001, *Recruiting Procedures for the Air Force*, engaging in an unprofessional or inappropriate relationship as defined in AFI 36-2909, *Professional and Unprofessional Relationships*, or documented failures (LOR or Article 15) to exercise sound leadership principles with respect to morale or welfare of subordinates.

## **KNOWLEDGE, SKILLS, AND ABILITIES (KSA) REQUIRED FOR THIS POSITION:**

1. Knowledge of numerous automated systems, which are extensively interconnected with data feedback loops. Applies comprehensive knowledge of all the independent systems and how they are interfaced in the integrated subsystems. Ability to determine proper sequence and start point of operations in order to isolate areas of malfunction.
2. Knowledge of electronic theory, electromagnetic propagation, electronic circuits, computer theory, complex information loops, optical, mechanical, hydraulic and pneumatic control and power systems as well as system pressurization, dehydration, liquid and gaseous cooling systems.
3. Knowledge of mathematics, including trigonometry, as applied to electronic functions on the aircraft.
4. Knowledge of a broad range of technical publications, which encompass the entire avionics multiple integrated system complex, consisting of several complete integrated systems on the F-15 aircraft. Ability to interpret schematic diagrams, which include numerous interconnections of signal paths both between and within individual control systems of the multiple system complexes.
5. Skill in the set-up, operation and interpretation of computer controlled automated test equipment (ATE) and test stands, oscilloscopes (dual trace, storage, digitized), spectrum, network and distortion analyzers, frequency counters, signal generators, signal analyzer, logic analyzer, oscilloscopes, time domain reflectometers, capacitance testers, digital multi-meters and voltmeters, power meters, power supplies, computer program controller loader and verifier, laptop computers and similar test equipment for testing complete multi-system complexes such as the complete electronics package for an aircraft including numerous interconnections of signal paths both between and within individual subsystems of the multi-system complex; and in troubleshooting, installing, repairing, and maintaining electronic integrated multi-systems where circuit theory must be used to understand the operation of a large number of circuits and functions, and the interaction of subsystems which create malfunctions.
6. Ability to isolate malfunctions and determine methods of repair for the multiple integrated system complex, consisting of the central computer complex, weapons control target acquisition and tracking radar, tactical electronic warfare, navigation and the automatic flight control, Fighter Data Link/Link network, and other avionic systems on the F-15 aircraft. Demonstrates a thorough knowledge for the interface of electronic, optical and mechanical systems on the F-15 aircraft.
7. Ability to repair, align, rebuild, and adjust a complex multiple integrated system consisting of, but not limited to, several complete electronic integrated systems such as the central computer complex, weapons control target acquisition and tracking radar, tactical electronic warfare, navigation and automatic flight control.

## **SUMMARY OF DUTIES:**

-- Performs trouble analysis; functionally tests and evaluates operational characteristics, isolates malfunctions; repairs, modifies and performs final alignments of a multiple electronic avionics system complex consisting of several extensively integrated systems which form complex electronic information loops on the F-15 aircraft. Reviews and analyzes malfunctions encountered through questioning aircrews and evaluates operational characteristics by applying a broad range of technical data to determine nature and validity of malfunctions. Examines system failure based on an extensive practical knowledge of electronics and the multi-system complex. Devises repair procedures and isolates to specific components.

Repairs systems by replacing sensors, transducers, wiring, coax/triax cables, data transmission lines, waveguides, line replaceable units, and a variety of other peripheral parts and assemblies. Uses extensive systems analysis to recommend engineering facilities for improvements on software, hardware changes and for improvements on existing systems.

-- Interprets and analyzes waveforms, voltage/current/power indications, computer printouts, optical presentations, and instrument readings. Utilizes test and support equipment such as signal analyzer, logic analyzer, microwave signal generators, oscilloscopes, time domain reflectometers, capacitance testers, digital multi-meters and voltmeters, power meters, power supplies, computer program controller loader and verifier, and laptop computers. Modifies and updates avionics support equipment and support software according to applicable technical publications. Functionally tests and analyzes program data and determines if the application meets desired operational characteristics. Examines recurring malfunctions and software deficiencies. Formulates repair procedures based on findings and recommends program changes, procedural changes, or data corrections to correct software deficiencies. Recommends revisions to technical publications based on analysis of test data. Produces, assembles, operates, and repairs experimental systems, using breadboard prototypes, locally produced technical drawings, and analyzes test results for use in future modifications.

-- Performs modifications, repairs, calibrations, fault isolations, and final alignment of electronic multiple integrated system complexes on the F-15 aircraft. Accomplishes Time Compliance Technical Orders (TCTO), which involves hardware and software modifications to multiple integrated electronic systems. Reviews and analyzes the changes; troubleshoots, recommends changes to the technical data as necessary since the nature of the modifications changes the overall operational characteristics of the system being updated. Adapts and recommends changes such as extending the technical data provided to establish the interrelationships of the total system complex when technical data may refer only to specific portions of the complete integrated systems. Obtains additional training and increased responsibility to maintain an ever-expanding integrated electronic complex.

-- Provides training and technical assistance on the electronic multiple integrated systems of the F-15 aircraft for lower grade personnel which encompasses but is not limited to the ability to evaluate operational characteristics, perform functional tests, trouble analysis, isolate malfunctions, and perform repair, modifications, and final alignments. Provides upgrade training for instruction to newly assigned personnel regardless of grade level. Reviews and inspects work of same grade and lower grade personnel for compliance with acceptable trade practices. Provides technical assistance to lower grade personnel in maintaining avionics systems and for coordinating the work of employees assigned on a task basis.

-- Requisitions, processes and accounts for Due in From Maintenance (DIFM) supply assets. Documents maintenance repair actions and man-hour accounting on maintenance forms and computer systems. Maintains historical data of repaired aircraft and components. Makes historical data collection entries in databases of numerous computerized applications.

-- Prepares for and participates in various types of readiness evaluations such as Operational Readiness Inspections, Inspector General Inspections, Unit Effectiveness Inspections and Mobility and command support exercises.

-- May be required to perform such additional duties as structural fire fighting, aircraft fire / crash / rescue duty, security guard, snow removal, munitions loading and handling, heavy equipment operator, maintenance of facilities and equipment, or serve as a team member on a board to cope with natural disasters or civil emergencies.

-- Complies with safety, fire, security, and housekeeping regulations. Ensures that materiel and equipment are properly stored, protected and maintained.

-- Performs other duties as assigned.

### **EVALUATION PROCESS:**

Applicants will be evaluated solely on the information provided in the application. Experience will be evaluated based on the relevance to the position for which application is made and whether it is full-time or part-time. In addition to experience, credit will also be given for military training and self-development, civilian and military awards and education.

### **APPLICATION PROCEDURES:**

- Cover letter
- NGB Form 34-1
- Resume and/or statement of civilian/military experience/education may be submitted with your packet. Ensure to focus on official military training when the standards were exceeded and explain any particular item the board may question.
- Applicants indicating education above the high school level must attach appropriate documentation. Education includes Trade/Business schools, military service schools, and extension/correspondence courses successfully completed.
- Two full length photographs (snapshots acceptable) date within 1 year.
- *(1) one in service dress*
- *(2) one in light blue shirt/blouse long or short sleeves.*
- Copy of both sides of state driver's license.
- Copy of last three performance reports showing an overall EPR rating of 5. *(If three EPRs are not available, the Airman must include a letter of recommendation or performance from the military command.)*
- Copy of latest Report on Individual Person, (Records Review Rip).
- Copy of latest Point Credit Summary.
- Copy of all DD Form 214/NGB Form 22
- Copy of AF Form 422
- Copy of latest Air Force Fitness Management System (AFFMS) printout showing a score of at least 75% date within 1 year.
- Letter of Recommendation(s) (If Applicable)
- Other additional documentation (If Applicable)

**LOCATION: 159<sup>TH</sup> FW, NAS-JRB, BELLE CHASSE, LA**

**This position is located in ANG Aviation Wing (F-15), Aircraft Maintenance Group, Aircraft Maintenance Squadron/Flight, Avionics Flight Line Element. The primary purpose of this position is to perform trouble analysis, functional tests, and evaluate operational characteristics, repairs, modifications, and final alignments on the electronically multi-integrated avionics systems of the F-15 aircraft.**

**TECHNICIAN ANNOUNCEMENT:** This position is also being advertised under Technician Vacancy Announcement LA 1719463-T which is open until 7 July 2016. Personnel desiring to apply for the Technician Position must do so under Technician Vacancy Announcement.

**\*\*\*LOUISIANA NATIONAL GUARD MEMBERS – Acceptance of this position may result in the loss of contracted incentive(s). For further details, contact the LANG State Incentive Manager, at (504) 391-8336\*\*\***

### **How to Apply**

Application packets must be received at: Gillis Long Center, ATTN: NGLA-JPM-HA, MSgt Cassie L. Ellis, 5445 Point Claire Rd, Carville, LA 70721 or scanned to: [cassie.l.ellis.mil@mail.mil](mailto:cassie.l.ellis.mil@mail.mil) in a PDF file, NLT close of business (1600 hrs) on closing date. Confirmation of receipt of application is the responsibility of the applicant. POC is MSgt Cassie L. Ellis at (225) 319-4853, DSN 435-4853.